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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,683	12/19/2000	Lyndon Y. Ong	061473/0269206	9934

27498 7590 04/23/2004

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EXAMINER

QURESHI, SHABANA

ART UNIT	PAPER NUMBER
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2155

DATE MAILED: 04/23/2004

4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/742,683

Applicant(s)

ONG, LYNDON Y.

Examiner

Shabana Qureshi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 December 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Objections

Claim 12 is objected to because of the following informalities: A spelling error was found on line 2 of page 18 of the specification. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7, 10-11, 13, 15, 17-18, 20, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Satyanaranyana B. Rao, (US Patent No. 6,535,511 B1, hereinafter “Rao”).

Regarding claims 1, 5, 10, and 17, Rao teaches a private communications network comprising:

- an end system configured to communicate with a remote system via a network separate from the private communications network (column 3, lines 39-45, separate network is a public network);
- a network application server to receive a call request indicating the remote system wishes to communicate with the end system (column 3, lines 20-30) and using an address mapping table configured to communicate with the network application

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server to generate at least one address mapping responsive thereto (column 4, lines 35-48, combination of address database and translation table is address mapping table); and

- a packet modifier configured to receive a call request from the remote system via the separate network, to receive the address mapping from the network application server and to use the at least one address mapping to map communication packets from the end system for transmission on the private network (column 4, lines 14-17; column 4, lines 35-59, translation engine is packet modifier).

As per claim 2, Rao teaches the network of claim 1, wherein:

- the end system is configured to communicate with the remote system by sending communication packets to the packet modifier (column 3, lines 39-45); and
- the packet modifier is configured to map, communication packets from the end system by substituting at least one of source and destination addresses in the packet according to the mapping from the network application server (column 4, lines 35-59).

As per claim 3, Rao teaches the network of claim 2, wherein the packet modifier is configured to substitute at least a source address in the packet (column 3, lines 26-28).

As per claim 4, Rao teaches the network of claim 1, wherein the network application server is configured to provide the at least one address mapping to the packet modified a 1 command according to a predetermined protocol (column 3, lines 39-48).

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As per claim 6, Rao teaches the system of claim 5, wherein the address mapping table is configured to store information on an address mapping of at least the end system (column 4, lines 56-59).

As per claim 7, Rao teaches the system of claim 5, wherein the network application server is configured to access the address mapping table responsive to a request by the end system to communicate with the remote system (column 4, lines 35-59).

As per claim 8, Rao teaches the system of claim 5, wherein the network application server is configured to access the address mapping table responsive to a request by the remote system to communicate with the end system (column 4, lines 35-49).

As per claim 9, Rao teaches the system of claim 5, wherein the network application server is configured to send a command to the packet modifier to push the mapping association to the packet modifier (column 4, lines 35-48).

As per claim 11, Rao teaches the method of claim 10, wherein modifying packets includes modifying packets by substituting addresses of the packets corresponding to the end system (column 3, lines 26-28).

As per claim 12, Rao teaches the method of claim 10, wherein:

- the network application server determines the address mapping (column 4, lines 52-59); and
- a packet modifier separate from the network application server modifies the packets (column 4, lines 24-29, packet modifier may be separated from the network application server; column 4, lines 36-48, translation engine is the packet modifier).

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As per claim 13, Rao teaches the method of claim 12, further comprising using the network application server to communicate the address mapping to the packet modifier via a command protocol (column 3, lines 45-48).

As per claim 14, Rao teaches a method of generating address mappings using a network application server, the method comprising:

- receiving a request to establish a communication session between an end system connected to the network and a remote system connected to a public network (column 3, lines 20-30);
- accessing an address mapping table connected to the network application server to obtain address mapping information relating to at least one of the end system and the remote system (column 4, lines 52-59);
- generating an address mapping association based on the address mapping information (column 4, lines 52-59); and
- pushing the mapping association to a packet modifier for modifying packets sent from one of the end system and the remote system to the other (column 4, lines 52-59, information is passed between the packet modifier and address mapping table for translation of packets between the end point and the remote system and vice versa).

As per claim 15, Rao teaches the method of claim 14, wherein the address mapping association relates to at least the end system (column 4, lines 35-59, relates to end system or remote system).

As per claim 16, Rao teaches the method of claim 14, wherein pushing the mapping association is done using a command language (column 4, lines 35-48; column 4, lines 24-30).

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As per claim 18, Rao teaches the network of claim 17, wherein the packet modifier is configured to receive communication packets via the separate network from the remote system, process them using the address mapping from the network application server and pass the processed packets to the end system (column 4, lines 14-17; column 4, lines 35-59).

As per claim 19, Rao teaches the network of claim 18, wherein the packet modifier (column 4, lines 35-59) is configured to process the communication packets by performing a destination address substitution according to the address mapping from the network application server (column 3, lines 26-28).

As per claim 20, Rao teaches the network of claim 17, wherein the network application server is configured to provide the at least one address mapping to the packet modifier via a command according to a predetermined protocol (column 4, lines 44-46).

As per claim 22, Rao et al teach the network of claim 17, wherein the network application server is further to send a message to the remote system providing an address on the separate network which will be mapped by the packet modifier (column 5, lines 33-43, management system updates router with address, message with address is sent in the payload).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shabana Qureshi whose telephone number is (703) 308-6118. The examiner can normally be reached on Monday - Friday, 8:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on (703) 308-6662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shabana Qureshi
Examiner
Art Unit 2155

14 April, 2004


HOSAIN ALAM
SUPERVISORY PATENT EXAMINER